

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US2004/028004

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07K16/30 C07K16/46 A61K39/395 A61P35/00 G01N33/574
G01N33/577 A61K51/10 C12N15/13 C12N15/62 C12N5/10
C12N15/79

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, EMBASE, CHEM ABS Data, WPI Data, PAJ, Sequence Search

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	N. GONZALES ET AL.: "Reducing the potential immunogenicity of humanized CC49 by genetic manipulation of framework residues.a" PROCEEDINGS OF THE AMERICAN ASSOCIATION FOR CANCER RESEARCH. ANNUAL MEETING, vol. 44, July 2003 (2003-07), page 1118, XP008045040 USA abstract #5612 ----- -/--	1-43

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

1 April 2005

Date of mailing of the international search report

15/04/2005

Name and mailing address of the ISA

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PCT/US2004/028004

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>R. DE PASCALIS ET AL.: "Generation of minimally immunogenic high affinity variants of humanized anti-carcinoma antibody HuCC49V10 by in vitro affinity maturation."</p> <p>PROCEEDINGS OF THE AMERICAN ASSOCIATION FOR CANCER RESEARCH. ANNUAL MEETING, vol. 44, July 2003 (2003-07), pages 1115-1116, XP001204653</p> <p>USA</p> <p>abstract #5603</p>	1-43
A	<p>M. TAMURA ET AL.: "Structural correlates of an anticarcinoma antibody: Identification of specificity-determining residues (SDRs) and development of a minimally immunogenic antibody variant by retention of SDRs only."</p> <p>THE JOURNAL OF IMMUNOLOGY, vol. 164, no. 3, 1 February 2000 (2000-02-01), pages 1432-1441, XP000901556</p> <p>BALTIMORE, MD, USA</p> <p>cited in the application</p> <p>abstract</p> <p>discussion</p>	1-43
A	<p>WO 00/26394 A (THE GOVERNMENT OF THE UNITED STATES OF AMERICA)</p> <p>11 May 2000 (2000-05-11)</p> <p>cited in the application</p> <p>examples</p>	1-43
A	<p>S. KASHMIRI ET AL.: "Generation, characterization and in vivo studies of humanized anticarcinoma antibody CC49."</p> <p>HYBRIDOMA, vol. 14, no. 5, 1995, pages 461-473, XP000198397</p> <p>NEW YORK, NY, USA</p> <p>cited in the application</p> <p>abstract</p> <p>figure 1</p>	1-43
A	<p>US 6 495 137 B1 (MEZES ET AL.)</p> <p>17 December 2002 (2002-12-17)</p> <p>column 39, line 40 - column 40, line 22</p>	1-43
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	<p>N. GONZALES ET AL.: "Minimizing immunogenicity of the SDR-grafted humanized antibody CC49 by genetic manipulation of the framework residues." MOLECULAR IMMUNOLOGY, vol. 40, no. 6, October 2003 (2003-10), pages 337-349, XP002322986 OXFORD, GB the whole document</p> <p>-----</p>	1-43

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
see FURTHER INFORMATION sheet PCT/ISA/210
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.1

Although claims 28 and 29 are directed to a method of treatment of the human/animal body, and although claim 35 is directed to a diagnostic method practised on the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/US2004/028004

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0026394	A	11-05-2000	AU 766149 B2	09-10-2003
			AU 1710500 A	22-05-2000
			CA 2348698 A1	11-05-2000
			EP 1127148 A1	29-08-2001
			JP 2002528127 T	03-09-2002
			WO 0026394 A1	11-05-2000
			US 6818749 B1	16-11-2004
<hr/>				
US 6495137	B1	17-12-2002	US 5976531 A	02-11-1999
			US 2003165498 A1	04-09-2003
			US 5976845 A	02-11-1999
			TW 523521 B	11-03-2003
			US 6348581 B1	19-02-2002
			US 2003013856 A1	16-01-2003
			US 2003004318 A1	02-01-2003
			US 2003013854 A1	16-01-2003
			US 2002183497 A1	05-12-2002
			US 2002193574 A1	19-12-2002
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